











Fig. 10

## 5/5

US-5,301,243 discloses a hand-held scanner for reading characters from a string of characters on a substrate. The scanner is moved in contact with the substrate along the character line and has an optical system which images a small part of the substrate. The optical system comprises a CCD type line sensor provided with a plurality of light-sensitive elements arranged in a line. When the scanner is passed across the characters on the substrate, a succession of vertical slices of the characters and of the spaces between them is recorded.

Fig 11a

